

# Healthy Schools Council

## References at a Glance

September 2003

Issue to be Addressed	Regulations/Statutes/Standards Available (Mandates are in bold)	Other Guidance
<b>Renovations while school is occupied or adjacent to occupied spaces.</b>	<ol style="list-style-type: none"> <li>1. <b>603 CMR 38.00: SCHOOL CONSTRUCTION</b> – Massachusetts Department of Education, refers to <b>SMACNA</b></li> <li>2. SMACNA. 1995. IAQ Guidelines for Occupied Buildings Under Construction. 1<sup>st</sup> ed. Sheet Metal and Air Conditioning Contractors' National Association, Inc., Chantilly, VA.</li> <li>3. U.S. EPA. 2000. Indoor Air Quality Tools for Schools Renovation and Repairs Checklist. 2<sup>nd</sup> ed.</li> <li>4. U.S. EPA. 2001. Mold Remediation in Schools and Commercial Buildings. EPA 402K-01-001</li> <li>5. <b>Notification Requirement for Dust Control: 310 CMR 7.09(2).</b></li> </ol>	<p>MDPH, ER/IAQ Program MDOE, SBAB</p> <p>Sheet Metal and Air Conditioning Contractors' National Association, Inc., Chantilly, VA.</p> <p>DEP/Bureau of Waste Prevention, regional offices</p>
<b>Heating, Ventilating, and Air-Conditioning (HVAC) maintenance</b> -General Ventilation/Heating Air Handling Units (AHUs) -Air-Conditioned Buildings -Vehicle Exhaust Entrainment Issues	<p><b><u>General Ventilation</u></b>  <i>For all buildings</i></p> <ol style="list-style-type: none"> <li>6. U.S. EPA. 1991. Building Air Quality A Guide for Building Owners and Facility Managers. Dec. 1991</li> </ol> <p><i>For buildings since 1998</i></p> <ol style="list-style-type: none"> <li>7. <b>780 CMR 1209.0 Mechanical Ventilation. State Board of Building Regulations and Standards, refers to BOCA</b></li> <li>8. BOCA. 1993. The BOCA National Mechanical Code-1993. 8<sup>th</sup> ed. Building Officials &amp; Code Administrators International, Inc., Country Club Hills, IL.</li> </ol> <p><i>For buildings prior to 1998</i></p> <ol style="list-style-type: none"> <li>9. <b>State Board of Building Regulations and Standards in force at the time of construction/major renovation</b></li> <li>10. ASHRAE. Latest version. Ventilation for Acceptable Indoor Air Quality. American Society of Heating, Refrigeration and Air Conditioning Engineers. ANSI/ASHRAE 62-1999</li> </ol> <p><b><u>Filtration</u></b></p> <ol style="list-style-type: none"> <li>11. ASHRAE. 1992. Gravimetric and Dust-Spot Procedures for Testing Air-Cleaning Devices Used in General Ventilation for Removing Particulate Matter. American Society of Heating, Refrigeration and Air Conditioning Engineers. ANSI/ASHRAE 52.1-1992.</li> <li>12. CDC. 1998. Compendium of Measures to Control Chlamydia psittaci Infection Among Humans (Psittacosis) and Pet Birds</li> </ol>	<p><b><u>General Ventilation</u></b>            MDPH, ER/IAQ Program</p> <p>Department of Public Safety, State Board of Building Regulations</p> <p><b><u>Filtration</u></b>            MDPH, ER/IAQ Program</p> <p><b><u>Balancing and Commissioning</u></b>            Local SMACNA Chapter</p>

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	<p>(Avian Chlamydiosis), 1998. <i>MMWR</i> 47:RR-10. July 10, 1998.</p> <p><b>Balancing and Commissioning</b></p> <p>13. SMACNA. 1994. HVAC Systems Commissioning Manual. 1<sup>st</sup> ed. Sheet Metal and Air Conditioning Contractors' National Association, Inc., Chantilly, VA.</p> <p><b>Vehicle Exhaust Entrainment Issues</b></p> <p>14. <b>M.G.L. c. 90:16A. Stopped Motor Vehicles; Operation of Engine; Time Limit; Penalty.</b></p> <p>15. BOCA. 1993. The BOCA National Mechanical Code-1993. 8<sup>th</sup> ed. Building Officials &amp; Code Administrators International, Inc., Country Club Hills, IL.</p> <p>16. US DOE. School Design Guidelines</p>	
<p><b>Furnace/Boiler Maintenance/Emergency Generators</b></p>	<p>17. <b>527 CMR 4.00 Oil Burning Equipment. Board of Fire Prevention</b></p> <p><b>Furnace/Boiler Maintenance</b></p> <p>18. <b>310 CMR 7.00 Air Pollution Control</b></p> <ul style="list-style-type: none"> <li>For boilers with a maximum energy input capacity of 10 million BTU/hour or more, source registration requirement: <b>310 CMR 7.12</b></li> </ul> <p>18b. <b>310 CMR 7.02-7.04</b></p> <ul style="list-style-type: none"> <li>For boilers constructed before September 14, 2001 with units having maximum energy input capacities of 10 million BTU per hour or more, and for boilers constructed after September 14, 2001 with a maximum energy input capacity greater than 40 million BTU/hour, permit requirements: <b>310 CMR 7.02</b></li> <li>Maintenance and record keeping requirements: <b>310 CMR 7.03 and 7.04</b></li> </ul> <p>18c. <b>310 CMR 7.26 (30-37)</b></p> <ul style="list-style-type: none"> <li>For boilers constructed after September 14, 2001 with units having a maximum energy input capacity between 10 million and 40 million BTU/hour: certification, operating and record keeping requirements.</li> </ul>	<p>Local Fire Department, Fire Prevention Office</p> <p>MA Dept. of Environmental Protection, regional offices (permits)</p> <p>US EPA, Region 1</p>

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	<p>18d. <b>310 CMR7.12</b>; Source Registration Requirement</p> <p>18e. <b>40 CFR Part 60</b>, subpart Dc</p> <ul style="list-style-type: none"> <li>For boilers with a maximum capacity of more than 10 million BTU/hour, notify US EPA.</li> </ul> <p><u>Degreasers</u></p> <p>19a. <b>310 CMR 7.03(10)</b></p> <p>19b. <b>310 CMR 7.02 (8) i</b></p>	
<p><b>Building Envelope Issues</b></p> <ul style="list-style-type: none"> <li>-Roofs</li> <li>-Windows/doors</li> <li>-Exterior walls- Brick, Mortar etc.</li> <li>-Foundation</li> <li>-Other</li> </ul>	<p><i>For all buildings</i></p> <p>20. Building Science Corporation. 2001. Read This Before You Design, Build and Renovate. Building Science Corporation. Westford, MA</p> <p><i>For buildings since 1998</i></p> <p>21. <b>780 CMR 1.00 et al. State Board of Building Regulations and Standards, refers to BOCA</b></p> <p><i>For buildings prior to 1998</i></p> <p>22. <b>State Board of Building Regulations and Standards in force at the time of construction/major renovation</b></p>	<p>MA State Board of Building Regulations MDPH, ER/IAQ Program</p>

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<b>Chemical Management</b> Chemical Purchasing Practices Chemical Storage Chemical Use Practices Chemical Removal/Disposal	<b>Chemical Labeling and Storage Practices</b> 23. <b>527 CMR 14.00 Flammable and Combustible Liquids, Flammable Solids or Flammable Gases. Board of Fire Prevention</b> 24. <b>M.G.L. c. 111F. Hazardous Substances Disclosure by Employers. Massachusetts General Laws. M.G.L. c. 111F.</b> 24b <b>310 CMR 7.18 (8). Solvent Cleaners and Degreasers</b> 25. NFPA. 1996. Flammable and Combustible Liquids Code. 1996 ed. National Fire Prevention Association, Quincy, MA. NFPA 30. 26. NFPA. 1991. Fire Protection Guide to Hazardous Materials. 10th ed. National Fire Prevention Association, Quincy, MA. 27. Rose, S. 1984. Clinical Laboratory Safety. Van Nostrand Reinhold, New York, NY. Pp. 88. 28. FSI. 1999. Flinn Scientific & Biological Catalog Reference Manual 1999. Flinn Scientific Inc., Batavia, IL. 29. Scott Specialty Gases, Inc. 1997. Gas & Equipment Reference Guide. 1000.1 03/97-RRD-80M. Plumsteadville, PA. <b>Hazardous Waste Disposal</b> 30. <b>M.G.L. c. 21C, Massachusetts Hazardous Waste Management Act, 310 CMR 30.000</b> <b>Spill Cleanup</b> 31. <b>MGL c. 21E, Massachusetts Oil and Hazardous Material Release Prevention and Response Act</b> 32. <b>310 CMR 40.0000, Massachusetts Contingency Plan</b> <b>Mercury</b> 33. MA DEP/ EOEa and NEWMOA: Guidance for School Mercury Cleanouts <b>Other</b> 34. ANSI. Z358.1. Emergency Eyewash and Shower Equipment. American National Standards Institute. Washington, DC	<b>Chemical Labeling And Storage Practices</b> MDPH, ER/IAQ Program Division of Occupational Safety  <b>Hazardous Waste Disposal</b> MA Dept. of Environmental Protection web site/fact sheets MA DEP Hazardous Waste Compliance Hotline: 617/292-5898 Local Board of Health/Haz-Mat Coordinator  <b>Spill Cleanup</b> MA Dept. of Environmental Protection web site/fact sheets MA DEP “MCP Helpline”: 800/462-0444 or 617/338-2255  <b>Mercury</b> Mercury Management – See MA DEP Web page MDPH, ER/IAQ Program Local Board of Health/Haz Mat Coordinator  Northeast Waste Management Officials’ Association (NEWMOA) web page: See Other Resources
<b>Drinking Water</b>	35. <b>40 CFR Parts 9, 141 and 142 National Primary Drinking Water Regulations for Lead and Copper; Final Rule</b> 36. <b>310 CMR 22.00 (Public Water Supplies)</b> 37. <b>248 CMR 2.00 (Plumbing Related to Drinking Water)</b>	MDPH MDEP, Bureau of Resource Protection

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	<b>Fixtures)</b> 38. <b>105 CMR 570.000 (Bottled Water)</b>	
<b>Asbestos Management Plans</b>	39. <b>M.G.L. c. 149:6A-6G. Monitoring, inspection and investigation of work involving asbestos</b> 40. <b>453 CMR 6.00 U.S. Asbestos Hazard Emergency Response Act of 1986 (AHERA)</b> 41. <b>U.S. Asbestos School Hazard Abatement Reauthorization Act of 1990 (ASHARA)</b> 42. <b>310 CMR 4.00, 7.00, 7.09(5), 7.15 (notifications and fees; work practices for asbestos removal, storage, transport, and handling; inspections for demolition and renovations)</b> 43. <b>310 CMR 19.00 (disposal of asbestos-containing material</b>	MA Dept. of Labor and Workforce Development Division of Occupational Safety US Environmental Protection Agency MA Dept. of Environmental Protection
<b>IPM Plans</b> (Integrated Pest Management) Pesticide Regulatory Requirements IPM Components and Pesticide Use	44. <b>527 CMR 37.00 Pesticide Storage. Board of Fire Prevention.</b> 45. <b>M.G.L. c. 132B: 2, 6C-6i Massachusetts Pesticide Control Act</b> 46. <b>333 CMR Pesticide Regulations</b> 47. <b>333 CMR 13.11: Special Requirements for School, Day Care and Child Care Program Property.</b>	1) Local Fire Department, Fire Prevention Office 2) Massachusetts Department of Agricultural Resources
<b>Underground Storage Tanks</b>	48. <b>527 CMR 9.00 Tanks and Containers. Board of Fire Prevention.</b> 49. <b>310 CMR 40.0000, Massachusetts Contingency Plan (leaking tanks)</b>	Local Fire Department, Fire Prevention Office MA Dept. of Environmental Protection  Bureau of Waste Site Cleanup (Assessment and cleanup of leaking USTs)
<b>Septic Systems (Title V)/Sanitary Sewers</b>	50. <b>310 CMR 15.000 Title V siting, Construction, Inspection and Maintenance of Septic Systems</b>	MA DEP Local Board of Health

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<b>Miscellaneous</b> <b>(Maintenance/Custodial Issues)</b> Carpeting Other	51. Berry, M.A. 1994. <i>Protecting the Built Environment: Cleaning for Health</i> , Michael A. Berry, Chapel Hill, NC. 52. Riggs, J.R. 1996. <i>Materials and Components of Interior Architecture</i> , 4 <sup>th</sup> ed. Prentice Hall, Englewood Hills, NJ. 53. IIRC S001 Reference Guideline for Professional On-Location Cleaning of Textile Floor Covering Materials Institute of Inspection, Cleaning and Restoration Certification 54. Recommendations from carpet manufacturers 55. U.S. EPA. 2000. <i>Indoor Air Quality Tools for Schools</i> . 2 <sup>nd</sup> ed. 56. U.S. EPA. 2001. <i>Building Air Quality – A Guide for Building Owners and Facility Managers</i> . Dec. 1991. <u><b>Management of Wastes Other than Chemicals</b></u> 57. <b>310 CMR 19.10</b> (waste bans) 58. <b>310 CMR 30.00</b> (Universal wastes, e.g., fluorescent lamps) 58b <b>40 CFR 761.2 (a) (4)</b> 58c <b>40 CFR 761.50 (b) (2)</b> 59. <b>310 CMR 27.00</b> (Underground Injection Control, e.g., floor drains) <u><b>Vehicle inspections</b></u> 60. <b>540 CMR 404(a)</b> (safety inspections) 61. <b>310 CMR 60.02</b> (emission inspections) 62. <b>MGL. 1986. Stopped motor vehicles; Operation of Engine; Time Limit; Penalty. Massachusetts General Laws. M.G.L. c. 90:16A.</b>	MDPH, ER/IAQ Program The Carpet and Rug Institute, Dalton, GA  The Institute of Inspection, Cleaning and Restoration Certification  <u><b>Management of Wastes Other than Chemicals</b></u> MA Dept. of Environmental Protection US EPA, Region 1  <u><b>Vehicle inspections</b></u> MA Registry of Motor Vehicles MA Dept. of Environmental Protection